

FIG.1

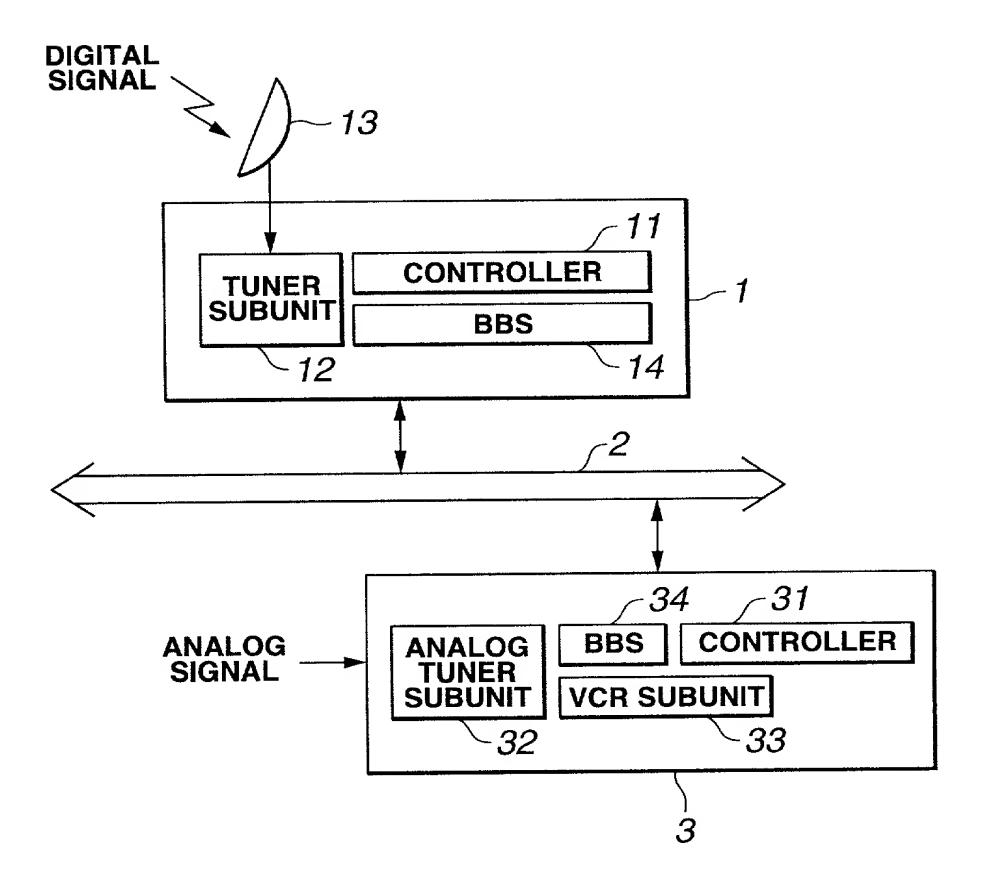


FIG.2

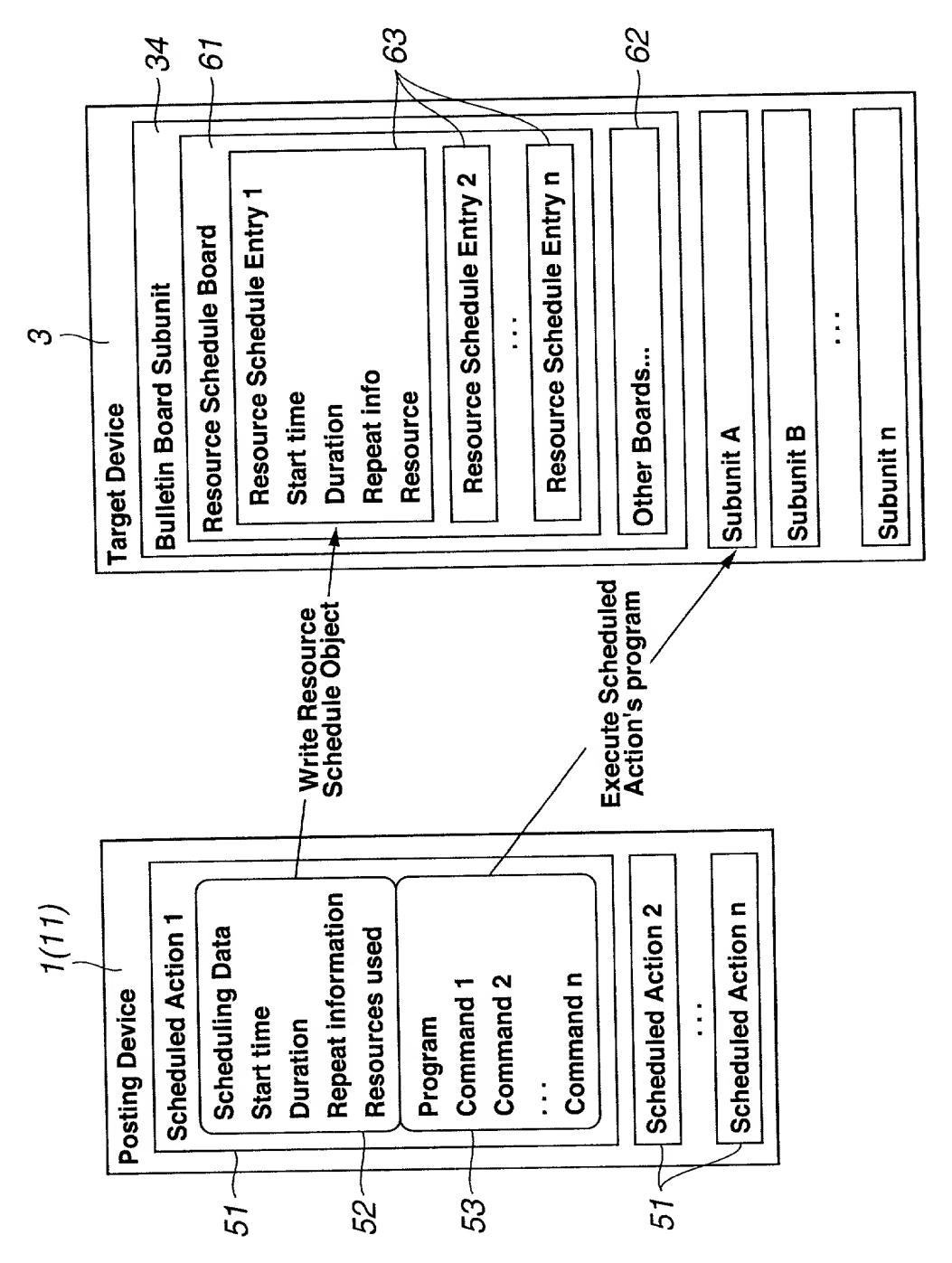


FIG. 3

descriptor_length
list_type
attributes
size_of_list_specific_information
list_specific_informaiton
Write_Enabled
non_info_block_fields_length
board_type
object_list_maximum_size
object_entries_maximum_number
object_entry_maximum_size
board_type_dependent_info_length
board_type_dependent_info
optional blocks for future expansion
number_of_entries(n)
object_entry
descriptor_length
entry_type
attributes
object_ID
posting_device_GUID
record_ID
size_of_entry_specific_information
Resource Schedule Entry
object_entry[n-1]
descriptor_length
entry_type
attributes
object_ID
posting_device_GUID
record_ID
size_of_entry_specific_information
Resource Schedule Entry

FIG.4

Address_offset	Contents
00 ₁₆	non_info_block_fields_length
01 ₁₆	
02 ₁₆	board_type
03 ₁₆	object_list_maximum_size
04 ₁₆	
05 ₁₆	object_entries_maximum_number
06 ₁₆	
07 ₁₆	object_entry_maximum_size
08 ₁₆	
09 ₁₆	board_type_dependent_information_length
0A ₁₆	
0B ₁₆	
0C ₁₆	board_type_dependent_information
0D ₁₆	
•	
	optional info blocks for future expansion
n	

FIG.5

Value	Board type
00 ₁₆	Reserved
01 ₁₆	Resource Schedule Board
02 ₁₆ -FF ₁₆	Reserved for future specification

FIG.6

	object_entry[n-1]
	descriptor_length
	entry_type
	attributes
	object_ID
	posting_device_GUID
	record_ID
size	_of_entry_specific_information
	Resource Schedule Entry

Resource Schedule Entry high level view

FIG.7

object_entry[n-1] descriptor_length entry_type attributes object_ID posting_device_GUID record_ID size_of_entry_specific_information Resource Schedule Entry

start_time year(msb) year(lsb) month day hour minute second duration hours(msb) hours(lsb) minutes seconds repeat_info_length repeat_type:Weekly(optional)* repeat_type number_of_events Interval:hours Interval:hours Interval:minutes Interval:seconds Info Blocks compound_length info_block_type primary_fields_length number_of_subunits subunit_type_and_ID[0] subunit_type_and_ID[0] charactor_code_info_block compound_length info_block_type primary_fields_length character_code_type character_code_type specific language_code_info_block compound_length info_block_type primary_fields_length character_code_type_specific language_code_info_block compound_length info_block_type primary_fields_length language_code_type_specific raw_text_info_block compound_length info_block_type primary_fields_length language_code_type_specific	
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compound_length info_block_type primary_fields_length character_code_type character_code_type_specific language_code_info_block compound_length info_block_type primary_fields_length language_code_type language_code_type_specific raw_text_info_block compound_length info_block_type primary_fields_length info_block_type primary_fields_length	subunit_type_and_ID[n]
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primary_fields_length character_code_type character_code_type_specific language_code_info_block compound_length info_block_type primary_fields_length language_code_type language_code_type_specific raw_text_info_block compound_length info_block_type primary_fields_length info_block_type primary_fields_length	
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raw_text_info_block compound_length info_block_type primary_fields_length	
compound_length info_block_type primary_fields_length	
info_block_type primary_fields_length	
primary_fields_length	
raw text_data	
	raw_text_data

Address_offset	Contents
0016	year(msb)
01 ₁₆	year(Isb)
02 ₁₆	month
03 ₁₆	day
04 ₁₆	hour
05 ₁₆	minute
06 ₁₆	second

FIG.9

Address_offset	Contents		
00 ₁₆	Reserved(4 bits)	hours(msb)	
01 ₁₆	hours(Isb)		
02 ₁₆	minutes		
03 ₁₆	seconds		

FIG.10

Values	definition
0016	Weekly schedule
01 ₁₆ -0F ₁₆	reserved
10 ₁₆	Interval schedule
0F ₁₆ -FF ₁₆	reserved

	msb							Isb
address_offset			C	onten	ts			
0E ₁₆			re	oeat_t	ype			
0F ₁₆			numb	er_of_	_even	ts		·
10 ₁₆	Sunday	Monday	Tuesday	Wed- nesday	Thurs- day	Friday	Saturday	Reserved

FIG.12

address_offset	contents			
0E ₁₆	repeat_type			
0F ₁₆	number_of_events			
10 ₁₆	Reserved(4 bits) Interval:hours(ms			
11 ₁₆	interval:	hours(Isb)		
12 ₁₆	interval:minutes			
13 ₁₆	interval:seconds			

address_offset	contents	
00 ₁₆	compound_length	
01 ₁₆		
02 ₁₆	info_block_type	
03 ₁₆		
04 ₁₆	primary_fields_length	
05 ₁₆		
06 ₁₆	number_of_subunits	
07 ₁₆	subunit_type_and_ID[0]	
	3 8	

FIG.14

character_code_info_block		
Adress_offset	Contents	
00 00 ₁₆	compound_length	
00 01 ₁₆		
00 02 ₁₆	info_block_type=00 08 ₁₆ (character_code_info_block)	
00 03 ₁₆		
00 04 ₁₆	primary_fields_length	
00 05 ₁₆		
00 06 ₁₆	character_code_type	
00 07 ₁₆		
•	character_code_type_specific	
•		

language_code_info_block				
Adress_offset	Contents			
00 00 ₁₆	compound_length			
00 01 ₁₆				
00 02 ₁₆	info_block_type=00 09 ₁₆ (language_code_info_block)			
00 03 ₁₆				
00 04 ₁₆	primary_fields_length			
00 05 ₁₆				
00 06 ₁₆	language_code_type			
00 07 ₁₆				
	language_code_type_specific			

FIG.16

raw_text_info_block				
Adress_offset	Contents			
00 0016	compound_length			
00 01 ₁₆				
00 02 ₁₆	info_block_type=00 0A ₁₆ (raw_text_info_block)			
00 03 ₁₆				
00 04 ₁₆	primary_fields_length			
00 05 ₁₆				
00 06 ₁₆				
•	raw_text_data			
•				

raw_text_data				
CHANNEL				
PROGRAM TITLE (PROGRAM)				
CONTROL INFORMATION (REPLAY, RECORDING, STOP, ETC.)				
REMARKS (PAY PER VIEW)				
PROVIDER				
PRELIMINARILY RESERVED				

FIG.18

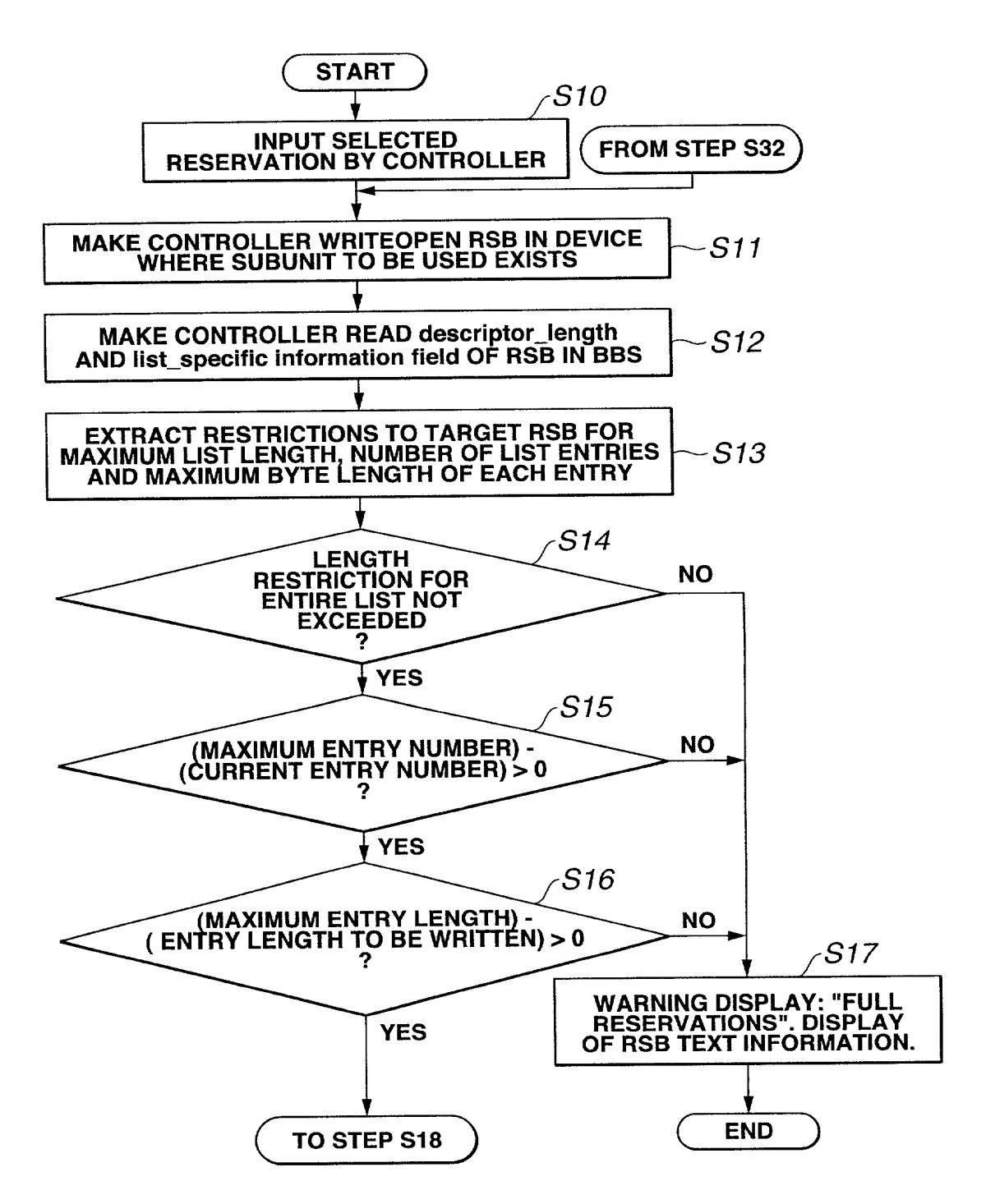


FIG.19

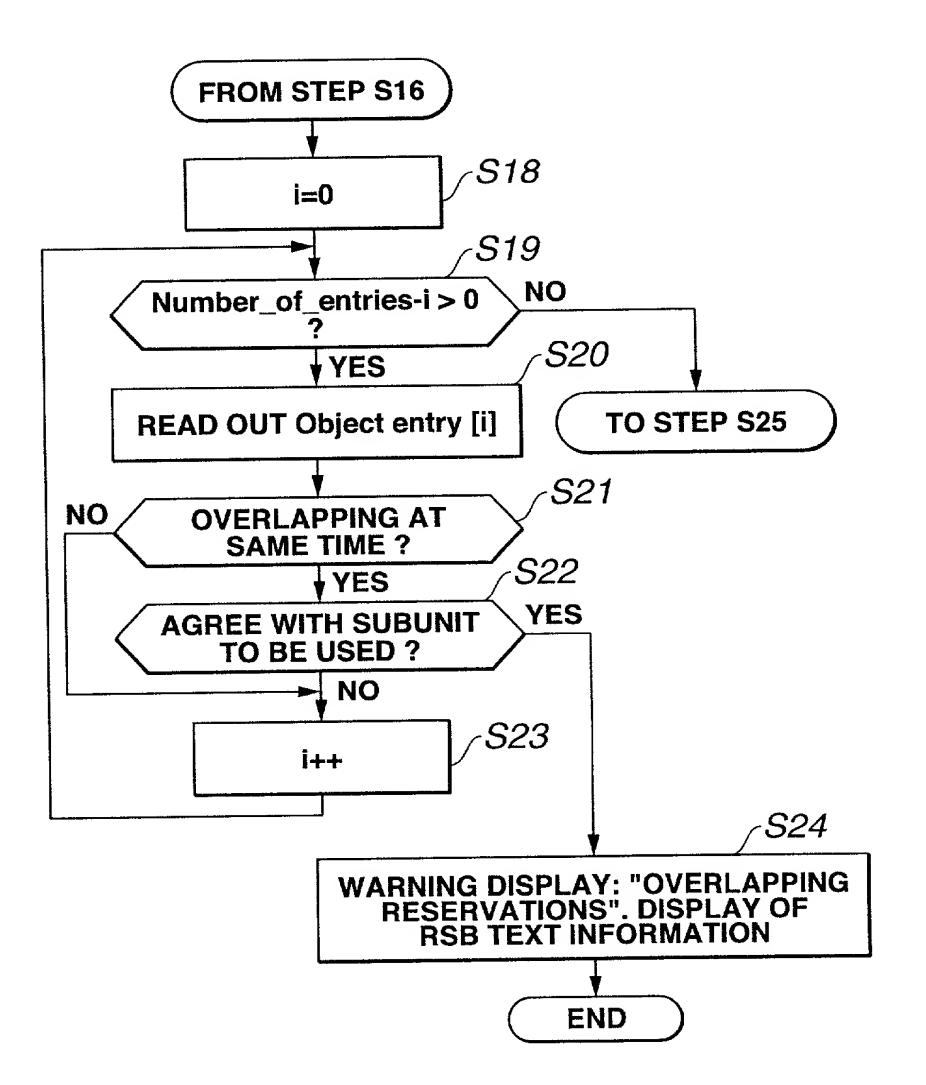


FIG.20

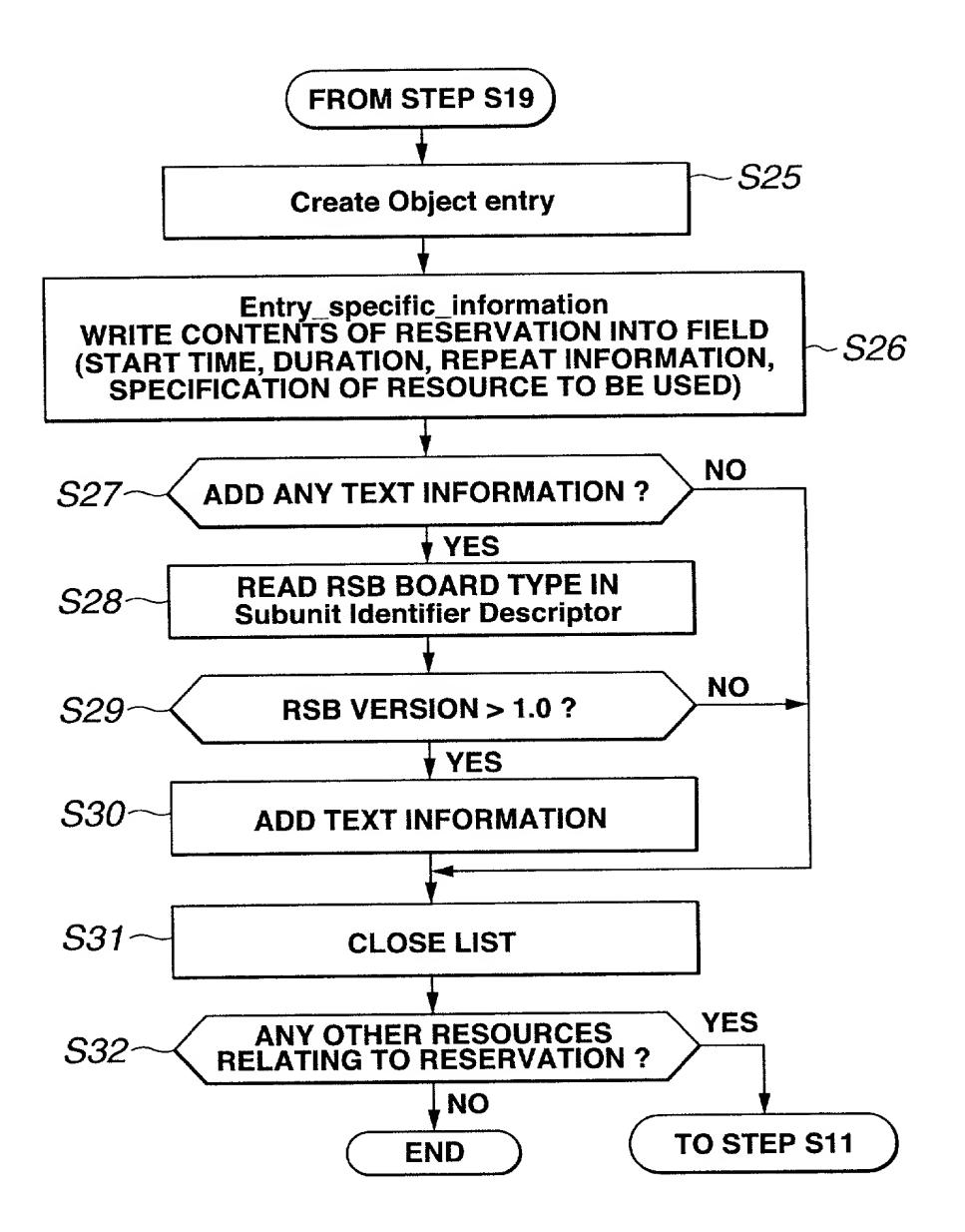


FIG.21

opcode	OPEN DESCRIPTOR	
operand 0	descriptor_type=10 ₁₆	
operand 1	List ID:00 ₁₆	
operand 2	List ID:01 ₁₆	
operand 3	subfunction WRITE OPEN 03 ₁₆	
operand 4	reserved 00 ₁₆	

	msb				lsb
opcode	R	EAD DE	SCRIP	TOR (09 ₁	16)
operand 0	descri	ptor ide	ntifier		
operand 1		# #			
#					
	read_i	read_result_status			
-	reserv	reserved : 00 ₁₆			
	data_l	data_length			
-	address				

FIG.23

	msb						Isb
opcode		CREAT	E DES	CRIPT	OR (0	016)	
operand 0			re	esult			
operand 1			subfu	nction	_1		
operand 2		reserved					
operand 3							
		subfunction_1_specification					

values of subfunction_1	meaning
00 ₁₆	create a new descriptor
01 ₁₆	create a new object and its child list
all other values	reserved for future specification

subfunction_1_specification for subfunction_1=01 ₁₆						1 ₁₆		
	msb	_						lsb
operand 3								
		descriptor_identifier_where						
-								
			<u> </u>					
	descriptor_identifier_what_1							
•								
=	descriptor_identifier_what_2							

FIG.26

meaning	create the new object and place it in the location specified by where, the entry type is specified by what 1. Also create the new list as the child of the new object. The list type is specified by what 2.	reserved for future specification
descriptor_type of descriptor_identifier_what 2	116	
descriptor_type of descriptor_identifier_what_1	2216	all other values
descriptor_type of descriptor_identifier_where	2016	

opcode	WRITE DESCRIPTOR (OA16)
operand 0	descriptor identifier
-	subfunction:partial_replace(50 ₁₆)
	group_tag:immediate(00 ₁₆)
= •	replacement_data_length
=	address
=	original_data_length
•	replacement_data

FIG.28

descriptor_length	
	<u> </u>
generation_ID	
size_of_list_ID	
size_of_object_ID	
size_of_object_position	
number_of_root_object_lists(n)	
root_object_list_id_0	
root_object_list_id_n-1	
subunit_dependent_information_length	
subunit_dependent_information	
non_info_block_fields_length	
bulletin_board_subunit_version	
number_of_supported_board_types(n)	
supported_board_type_specific_info_length)[(
supported_board_type_specific_info[0]	
supported_board_type	
supported_board_type_version	
implementation_profile_ID	
supported_board_type_dependent_info_lengt	h
supported_board_type_dependent_info	
supported_board_type_specific_info_lengh	n-
supported_board_type_specific_info[n-1]
supported_board_type	
supported_board_type_version	
implementation_profile_ID	
supported_board_type_dependent_info_leng	th
supported_board_type_dependent_info	
optional blocks for future expansion	
manufacturer_dependent_length	
11100100100101	

FIG.29

Value	List definition
1001 ₁₆	Resource Schedule List
1002-10FF ₁₆	reserved

FIG.30

Address_offset	Contents
00 ₁₆	supported_board_type
01 ₁₆	supported_board_type_version
02 ₁₆	implementation_profile_ID
03 ₁₆	supported_board_type_dependent_information_length
04 ₁₆	
05 ₁₆	
=	supported_board_type_dependent_information
-	

FIG.31

opcode	OPEN DESCRIPTOR
operand 0	descriptor_type=10 ₁₆
operand 1	List ID:00 ₁₆
operand 2	List ID:01 ₁₆
operand 3	subfunction CLOSE 00 ₁₆
operand 4	reserved 00 ₁₆

FIG.32

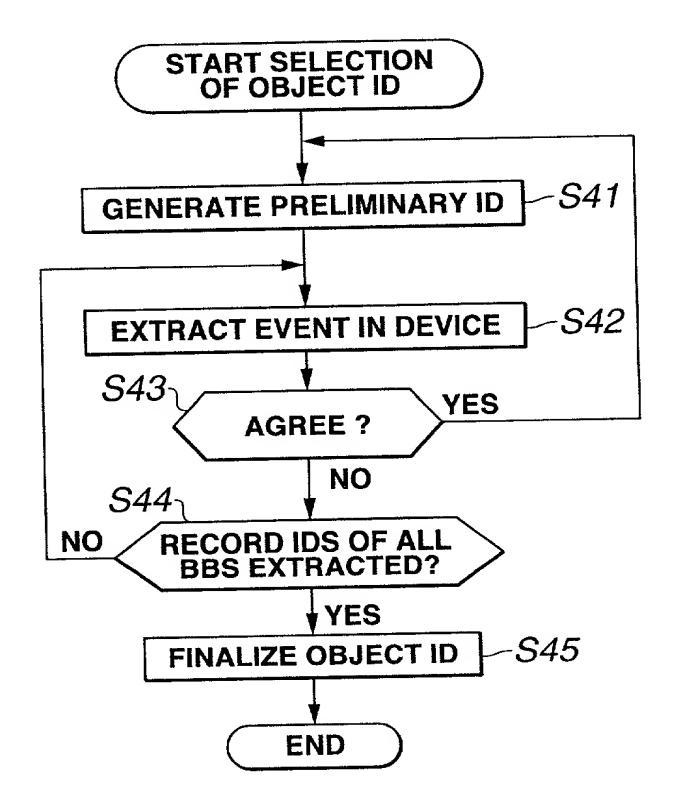


FIG.33

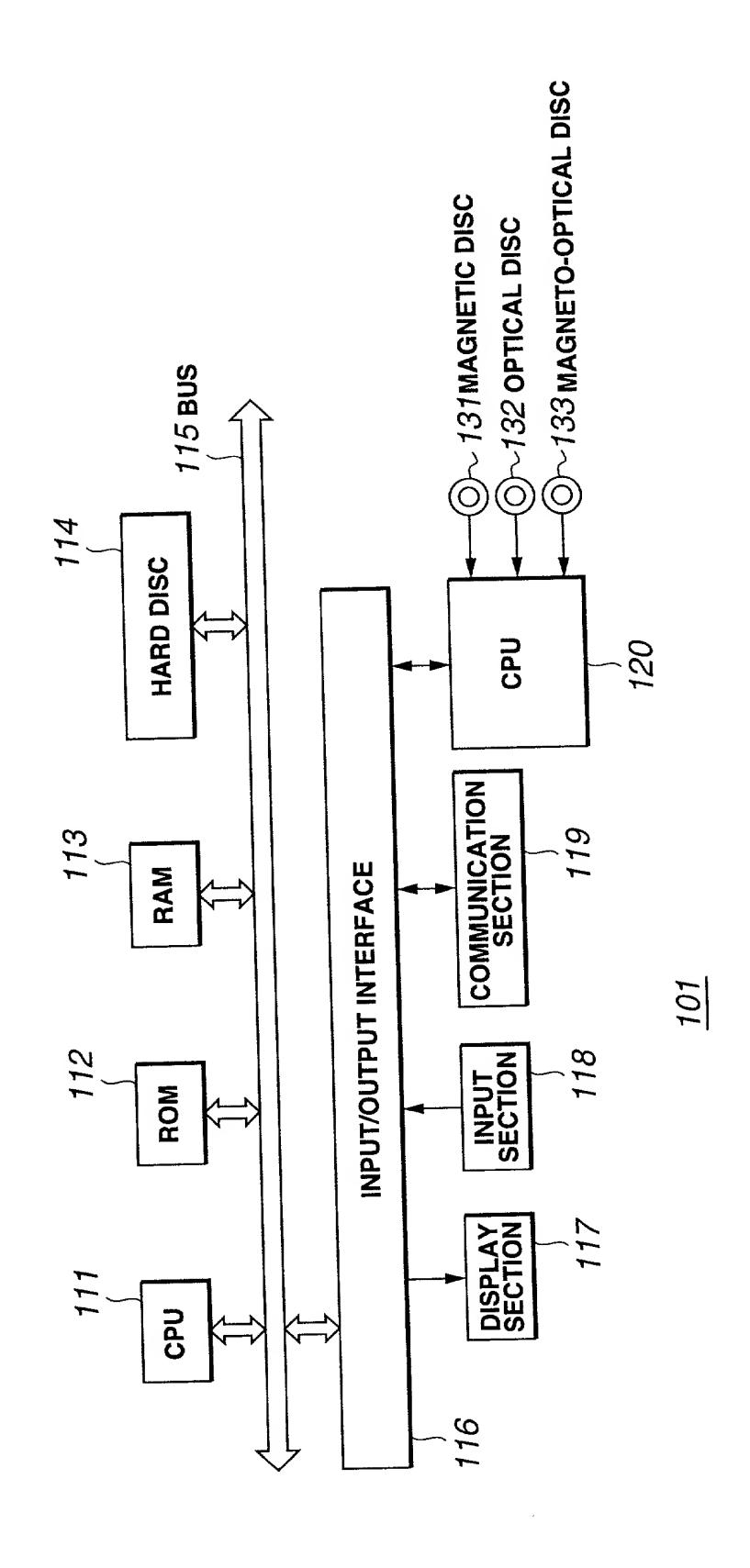


FIG.34